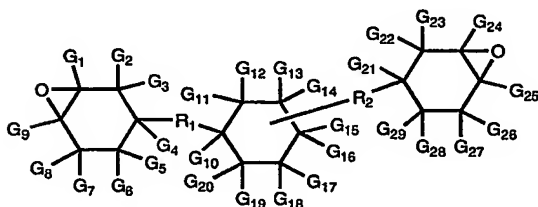


## WHAT IS CLAIMED IS:

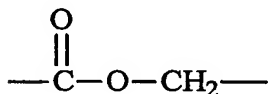
1. A method of enhancing the toughness of a coating on an article, said coating comprising a cured cycloaliphatic epoxy resin, said method comprising using as the epoxy resin a compound of the formula:



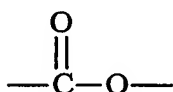
wherein  $R_1$  and  $R_2$  are divalent organic moieties that may be the same or different.

2. The method of Claim 1 wherein the cycloaliphatic epoxy resin comprises the reaction product of from about 40 to about 95 weight percent of a cycloaliphatic epoxide carboxylic acid ester and from about 5 to about 60 weight percent of the hydroxy functional compound.

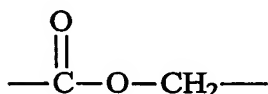
3. The process of Claim 1 wherein  $R_1$  is



4. The process of Claim 1 wherein  $R_1$  is

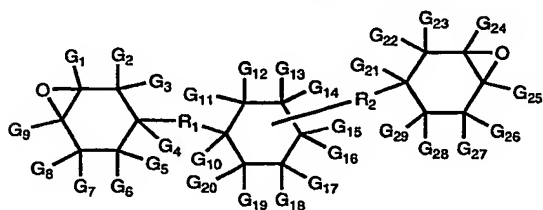


5. The cycloaliphatic epoxy resin of Claim 1 wherein  $R_1$  and  $R_2$  are each



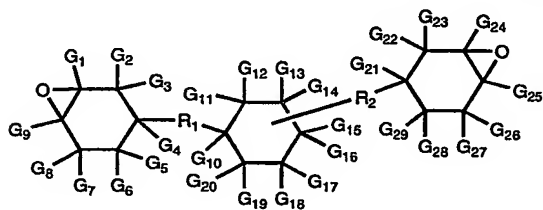
6. The cycloaliphatic epoxy resin of Claim 1 wherein each of  $G_1$ - $G_{29}$  are hydrogen.

7. A photocurable composition comprising an effective amount of a photoinitiator, and an epoxy resin of the following formula:



- 5 wherein  $R_1$  and  $R_2$  are divalent organic moieties that may be the same or different.

8. A thermally-curable composition comprising an effective amount of a thermally-activated initiator, and an epoxy resin of the following formula:



10

- wherein  $R_1$  and  $R_2$  are divalent organic moieties that may be the same or different.

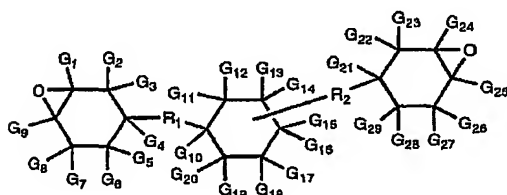
9. The composition of Claim 8 that is an LED encapsulant formulation.

## AMENDED CLAIMS

[received by the International Bureau on 25 February 2005 (25.02.2005);  
original claims 1-9 replaced by amended claims 1-8 (2 pages)]

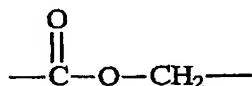
## WHAT IS CLAIMED IS:

1. A method of enhancing the toughness of a coating on an article, said coating comprising a cured cycloaliphatic epoxy resin, said method comprising (a) applying a  
5 photocurable composition on said article; and (b) curing the photocurable composition; wherein the photocurable composition comprises an effective amount of a photoinitiator, and an epoxy resin compound of the following formula:



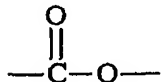
- 10 wherein R<sub>1</sub> and R<sub>2</sub> are divalent organic moieties that may be the same or different; and wherein G<sub>1</sub> through G<sub>28</sub> is hydrogen; phenyl; or substituted or unsubstituted alkyl or alkene groups having from 1 to about 10 carbon atoms.
2. The method of Claim 1 wherein the cycloaliphatic epoxy resin comprises the  
15 reaction product of from about 40 to about 95 weight percent of a cycloaliphatic epoxide carboxylic acid ester and from about 5 to about 60 weight percent of the hydroxy functional compound.

3. The method of Claim 1 wherein R<sub>1</sub> is



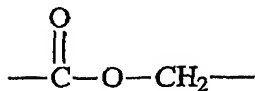
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4. The method of Claim 1 wherein R<sub>1</sub> is



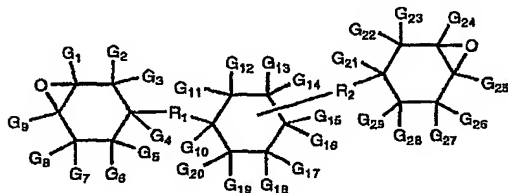
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5. The method of Claim 1 wherein  $R_1$  and  $R_2$  are each



6. The method of Claim 1 wherein each of  $G_1$ - $G_{29}$  are hydrogen.

7. A photocurable composition comprising an effective amount of a photoinitiator, and an epoxy resin of the following formula:

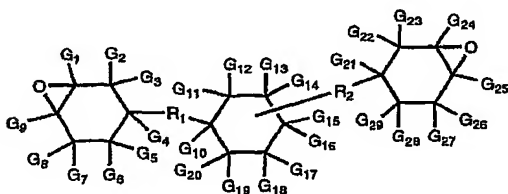


wherein  $R_1$  and  $R_2$  are divalent organic moieties that may be the same or different; and

10 wherein  $G_1$  through  $G_{29}$  is hydrogen; phenyl; or substituted or unsubstituted alkyl or alkene groups having from 1 to about 10 carbon atoms.

8. A thermally-curable LED encapsulant formulation composition comprising an effective amount of a thermally-activated initiator, and an epoxy resin of the following

15 formula:



wherein  $R_1$  and  $R_2$  are divalent organic moieties that may be the same or different; and

20 wherein  $G_1$  through  $G_{29}$  is hydrogen; phenyl; or substituted or unsubstituted alkyl or alkene groups having from 1 to about 10 carbon atoms.